

WHAT IS CLAIMED IS:

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1. A closure device comprising:
interlocking fastening strips; and
a slider member slidably disposed on the
interlocking fastening strips, the slider member
facilitating the occlusion of the interlocking fastening
when moved towards a first end thereof, the slider member
including a main body portion and a door portion which is
hingedly attached to the main body portion along a hinge
portion for movement between open and closed positions,
the hinge portion being substantially perpendicular to
the interlocking fastening strips when the main body
portion is installed upon the fastening strips.

2. The invention as in claim 1 wherein the slider
has a first gap when the door is in the open position,
said first gap is large enough to receive the fastening
strips.

3. The invention as in claim 2 wherein the
fastening strips have a width and the slider has a second
gap when the door is in the closed position, said second
gap is less than the width of the fastening strips.

4. The invention as in claim 1 wherein the
fastening strips have a longitudinal X axis, a Y axis
which is perpendicular to the X axis and a Z axis which
is perpendicular to the X axis and the Y axis, the main
body portion is parallel to the X axis, and the hinge
portion is parallel to the Z axis.

5. The invention as in claim 1 wherein the door

portion of the slider member includes a first side surface, a second side surface, and a shoulder disposed at a lower end of the first side surface.

5 6. The invention as in claim 5 wherein the first side surface is spaced-apart from the main body portion when said door portion is in the open position and is adjacent to the main body portion when said door portion is in the closed position.

10 7. The invention as in claim 5 wherein the main body portion includes a transverse body segment arranged substantially perpendicular to the main body portion and having a pair of downwardly extending side members with
15 an opening therebetween, the opening being sized to receive the interlocking fastening strips.

20 8. The invention as in claim 7 wherein the first side surface is adjacent to the main body portion and the second side surface is adjacent to said transverse body segment when said door portion is in the closed position.

25 9. The invention as in claim 1 wherein said slider includes a second door portion, said second door portion including a first side surface, a second side surface, and a shoulder at a lower end of the first side surface.

30 10. The invention as in claim 9 wherein each of said door portions includes a notch which is proximal to its hinge portion.

11. The invention as in claim 10 wherein the notches provide a first gap between the door portions

when in the open position, said first gap is large enough to receive the interlocking fastening strips.

21 12. The invention as in claim 9 wherein the
5 shoulders of the door portions are separated by a second gap when the door portions are in the closed position, the second gap being less than the width of the interlocking fastening strips.

10 13. The invention as in claim 7 wherein said slider includes a second door portion, a third door portion and a fourth door portion, each of said door portions including a side surface and a shoulder at a lower end of the side surface.

15 14. The invention as in claim 7 wherein said slider includes a second transverse body segment.

20 15. The invention as in claim 14 wherein said first transverse body segment being arranged at a first end of the main body portion and said second transverse body segment is at a second end of the main body portion.

25 16. The invention as in claim 14 wherein said slider includes a second door portion, a third door portion and a fourth door portion, each door portion including a first side surface, a second side surface, and a shoulder at a lower end of the first side surface.

30 17. The invention as in claim 16 wherein the first side surface is adjacent to the main body portion and the second side surface is adjacent to one of the two transverse body segments when the door portions are in

the closed position.

18. The invention as in claim 5, wherein the main body portion includes a downwardly extending side leg segment disposed along a side thereof and a transverse body segment disposed at an end thereof, the side leg segment having a shoulder at a lower end thereof and the transverse body segment having a pair of spaced-apart side members with an opening therebetween.

19. The invention as in claim 18 wherein the door portion includes a notch which is proximal to its hinge portion.

20. The invention as in claim 18 wherein the notch of the door portion and the side leg segment of the main body portion are separated by a first gap when the door portion is in the open position, the first gap being large enough to receive the interlocking fastening strips.

21. The invention as in claim 18 wherein the shoulder of the side wall and the shoulder of the leg segment are separated by a second gap when the door portion is in the closed position, the second gap being less than the width of the interlocking fastening strips.

22. The invention as in claim 1 wherein the slider member further includes a latching mechanism for retaining said door portion in the closed position.

23. The invention as in claim 22 wherein the latching mechanism comprises an appendage projecting outwardly from said door portion and a cooperating notch

formed in the main body portion, the appendage having a barb at its distal end, the notch of the latching mechanism capturing the barb of the latching mechanism when said door portion is moved into the closed position.

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al 24. The invention as in claim 1 wherein the slider member further includes a latching mechanism for retaining said door portion in the closed position and the main body portion includes a transverse body segment.

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25. The invention as in claim 24 wherein the latching mechanism comprises a protuberance formed along said transverse body segment of the main body portion and a cooperating chamfer formed along an edge of said door portion, the protuberance of the latching mechanism interlockingly engaging the chamfer of the latching mechanism when said door portion is moved into the closed position.

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26. The invention as in claim 24 wherein the latching mechanism comprises a generally arcuate appendage projecting outwardly from said door portion and a generally arcuate cooperating slot formed in said transverse body segment of the main body portion, the slot of the latching mechanism having a first notch formed along its length and the appendage of the latching mechanism having a first barb formed along its length, the slot of the latching mechanism receiving the appendage of the latching mechanism when said door portion is moved toward the closed position while said first barb of the appendage interacts with said first notch of the slot to provide a first assembly position for said door portion.

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27. The invention as in claim 26 wherein said slot includes a second notch and said first barb interacts with said second notch to provide a second assembly
5 position for said door.

28. The invention as in claim 26 wherein said first assembly position is a closed position.

29. The invention as in claim 27 wherein said
10 second assembly position is an open position.

30. The invention as in claim 27 wherein said
15 appendage having a second barb and said second barb interacts with said second notch in said second assembly position.

31. The invention as in claim 1 wherein the
20 interlocking fastening strips comprise U-channel type fastening strips.

32. The invention as in claim 1 wherein the
25 interlocking fastening strips comprise shear action fastening strips.

33. The invention as in claim 1 wherein the
interlocking fastening strips comprise arrowhead-type fastening strips.

34. The invention as in claim 1 wherein the
30 interlocking fastening strips comprise rolling action fastening strips.

35. The invention as in claim 1 wherein the interlocking fastening strips comprise profile fastening strips.

5 36. A slider member adapted to facilitate the occlusion of interlocking fastening strips, the slider member comprising:

a main body portion which is adapted to be installed upon the interlocking fastening strips; and

10 a door portion which is hingedly attached to the main body portion along a hinge portion for movement between open and closed positions, the hinge portion being substantially perpendicular to the interlocking fastening strips when the main body portion is installed
15 upon the fastening strips.

37. The invention as in claim 36 wherein the slider has a first gap when the door is in the open position, said first gap is large enough to receive the fastening
20 strips.

38. The invention as in claim 37 wherein the fastening strips have a width and the slider has a second gap when the door is in the closed position, said second
25 gap is less than the width of the fastening strips.

39. The invention as in claim 36 wherein the fastening strips have a longitudinal X axis, a Y axis which is perpendicular to the X axis and a Z axis which
30 is perpendicular to the X axis and the Y axis, the main body portion is parallel to the X axis, and the hinge portion is parallel to the Z axis.

40. The invention as in claim 36 wherein the door portion of the slider member includes a first side surface, a second side surface, and a shoulder disposed at a lower end of the first side surface.

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41. The invention as in claim 40 wherein the first side surface is spaced-apart from the main body portion when said door portion is in the open position and is adjacent to the main body portion when said door portion is in the closed position.

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42. The invention as in claim 40 wherein the main body portion includes a transverse body segment arranged substantially perpendicular to the main body portion and having a pair of downwardly extending side members with an opening therebetween, the opening being sized to receive the interlocking fastening strips.

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43. The invention as in claim 42 wherein the first side surface is adjacent to the main body portion and the second side surface is adjacent to said transverse body segment when said door portion is in the closed position.

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44. The invention as in claim 36 wherein said slider includes a second door portion, said second door portion including a first side surface, a second side surface, and a shoulder at a lower end of the first side surface.

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45. The invention as in claim 42 wherein said slider includes a second door portion, a third door portion and a fourth door portion, each of said door

portions including a side surface and a shoulder at a lower end of the side surface.

46. The invention as in claim 42 wherein said
5 slider includes a second transverse body segment.

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47. The invention as in claim 46 wherein said first
transverse body segment being arranged at a first end of
the main body portion and said second transverse body
10 segment is at a second end of the main body portion.

48. The invention as in claim 40, wherein the main
body portion includes a downwardly extending side leg
segment disposed along a side thereof and a transverse
15 body segment disposed at an end thereof, the side leg
segment having a shoulder at a lower end thereof and the
transverse body segment having a pair of spaced-apart
side members with an opening therebetween.

49. The invention as in claim 36 wherein the slider
20 member further includes a latching mechanism for
retaining said door portion in the closed position.

50. A storage container comprising:
25 a pair of complementary sheets;
a first fastening strip disposed along an edge
portion of one sheet;
a second fastening strip disposed along an edge
portion of the other sheet and disposed to interlockingly
30 engage the first fastening strip; and
a slider member slidably disposed on the first and
second fastening strips, the slider member facilitating
the occlusion of the interlocking fastening when moved

5 towards a first end thereof, the slider member including
a main body portion and a door portion which is hingedly
attached to the main body portion along a hinge portion
for movement between open and closed positions, the hinge
portion being substantially perpendicular to the
interlocking fastening strips when the main body portion
is installed upon the fastening strips.

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10 51. The invention as in claim 50 wherein the slider
has a first gap when the door is in the open position,
said first gap is large enough to receive the fastening
strips.

15 52. The invention as in claim 51 wherein the
fastening strips have a width and the slider has a second
gap when the door is in the closed position, said second
gap is less than the width of the fastening strips.

20 53. The invention as in claim 50 wherein the
fastening strips have a longitudinal X axis, a Y axis
which is perpendicular to the X axis and a Z axis which
is perpendicular to the X axis and the Y axis, the main
body portion is parallel to the X axis, and the hinge
portion is parallel to the Z axis.

25 54. The invention as in claim 50 wherein the door
portion of the slider member includes a first side
surface, a second side surface, and a shoulder disposed
at a lower end of the first side surface.

30 55. The invention as in claim 54 wherein the first
side surface is spaced-apart from the main body portion
when said door portion is in the open position and is

adjacent to the main body portion when said door portion is in the closed position.

56. The invention as in claim 54 wherein the main
5 body portion includes a transverse body segment arranged substantially perpendicular to the main body portion and having a pair of downwardly extending side members with an opening therebetween, the opening being sized to receive the interlocking fastening strips.

57. The invention as in claim 56 wherein the first side surface is adjacent to the main body portion and the second side surface is adjacent to said transverse body segment when said door portion is in the closed position.

58. The invention as in claim 50 wherein said slider includes a second door portion, said second door portion including a first side surface, a second side surface, and a shoulder at a lower end of the first side surface.

59. The invention as in claim 56 wherein said slider includes a second door portion, a third door portion and a fourth door portion, each of said door portions including a side surface and a shoulder at a lower end of the side surface.

60. The invention as in claim 56 wherein said slider includes a second transverse body segment.

61. The invention as in claim 60 wherein said first transverse body segment being arranged at a first end of the main body portion and said second transverse body

segment is at a second end of the main body portion.

62. The invention as in claim 54, wherein the main body portion includes a downwardly extending side leg segment disposed along a side thereof and a transverse body segment disposed at an end thereof, the side leg segment having a shoulder at a lower end thereof and the transverse body segment having a pair of spaced-apart side members with an opening therebetween.

63. The invention as in claim 50 wherein the slider member further includes a latching mechanism for retaining said door portion in the closed position.

64. A method for manufacturing a closure device comprising the steps of:
providing interlocking fastening strips;
providing a slider member including a main body portion and a door portion which is hingedly attached to the main body portion along a hinge portion for movement between open and closed positions, the hinge portion being substantially perpendicular to the interlocking fastening strips when the main body portion is installed upon the fastening strips; and

positioning the slider member on the interlocking fastening strips when the door portion is in the open position and closing the door portion after the slider member is on the interlocking fastening strips, the slider member is slidably disposed on the interlocking fastening strips, the slider member facilitating the occlusion of the interlocking fastening when moved towards a first end thereof.

65. The invention as in claim 64 wherein the slider has a first gap when the door is in the open position, said first gap is large enough to receive the fastening strips.

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66. The invention as in claim 65 wherein the fastening strips have a width and the slider has a second gap when the door is in the closed position, said second gap is less than the width of the fastening strips.

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67. The invention as in claim 64 wherein the fastening strips have a longitudinal X axis, a Y axis which is perpendicular to the X axis and a Z axis which is perpendicular to the X axis and the Y axis, the main body portion is parallel to the X axis, and the hinge portion is parallel to the Z axis.

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68. The invention as in claim 64 wherein the door portion of the slider member includes a first side surface, a second side surface, and a shoulder disposed at a lower end of the first side surface.

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69. The invention as in claim 68 wherein the first side surface is spaced-apart from the main body portion when said door portion is in the open position and is adjacent to the main body portion when said door portion is in the closed position.

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70. The invention as in claim 68 wherein the main body portion includes a transverse body segment arranged substantially perpendicular to the main body portion and having a pair of downwardly extending side members with an opening therebetween, the opening being sized to

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receive the interlocking fastening strips.

71. The invention as in claim 70 wherein the first side surface is adjacent to the main body portion and the second side surface is adjacent to said transverse body segment when said door portion is in the closed position.

al 72. The invention as in claim 64 wherein said slider includes a second door portion, said second door portion including a first side surface, a second side surface, and a shoulder at a lower end of the first side surface.

73. The invention as in claim 70 wherein said slider includes a second door portion, a third door portion and a fourth door portion, each of said door portions including a side surface and a shoulder at a lower end of the side surface.

74. The invention as in claim 70 wherein said slider includes a second transverse body segment.

75. The invention as in claim 74 wherein said first transverse body segment being arranged at a first end of the main body portion and said second transverse body segment is at a second end of the main body portion.

76. The invention as in claim 68, wherein the main body portion includes a downwardly extending side leg segment disposed along a side thereof and a transverse body segment disposed at an end thereof, the side leg segment having a shoulder at a lower end thereof and the transverse body segment having a pair of spaced-apart

side members with an opening therebetween.

77. The invention as in claim 64 wherein the slider member further includes a latching mechanism for retaining said door portion in the closed position.